

IN THE CLAIMS

This listing of claims replaces all prior versions, and listings, in this application.

1. (Currently Amended) Process for preparing cephadrine, said process comprising reacting 7- aminodesacetoxy cephalosporanic acid (7-ADCA) with D-dihydrophenylglycine in activated form (DHa) in the presence of an enzyme in a reaction mixture to form cephadrine, resulting in a conversion of 7-ADCA into cephadrine of at least 70 %, wherein the concentration D-dihydrophenylglycine (DH) in the reaction mixture is below 2wt. % throughout the reaction; wherein ~~throughout the reaction if said enzyme is a wild type penicillin acylase said reacting is carried out at a temperature below 15°C, or if said enzyme is an acylase having a higher S/H ratio than the wild type acylase of E.coli throughout the reacting step~~ and said reacting is carried out at a temperature of at least 15°C.
2. (Previously Presented) Process according to claim 1, wherein said reacting results in a conversion of 7-ADCA into cephadrine of at least 80%.
3. (Previously Presented) Process according to claim 1, wherein said reacting results in a conversion of D-dihydrophenylglycine in activated form (DHa) into cephadrine (CEF) of at least 70%, wherein
 - the conversion of DHa into CEF = $(n_{CEF}/ n_{DHa}) * 100\%$;
 - n_{CEF} = quantity of cephadrine formed (in mole); and
 - n_{DHa} = total quantity of DHa added to reaction mixture (in mole).
4. (Currently Amended) Process according to claim 1, wherein the concentration DH in the reaction mixture is maintained below 2 wt. %, throughout said reacting by controlling the pH of the reaction mixture between pH 6 and 9 ~~and/or when said enzyme is a wild type penicillin acylase said reacting is carried out at a temperature between 5 and 15°C, or when said enzyme is an acylase having a higher S/H ratio than the wild type~~